

In The Claims:

Please amend claims 1 and 6 as follows.

1. (Currently Amended): A charged-particle beam irradiator ~~for allowing~~ comprising: a plurality of scan electromagnet electromagnets provided on an entrance side of a final deflection electromagnet to scan a charged-particle beam to expand an irradiation field, ~~said charged-particle beam irradiator, comprising:~~

~~a plurality of said scan electromagnets, wherein~~

kicks provided by the plurality of said scan electromagnets are superimposed to form a collimated irradiation field at an exit of said final deflection electromagnet.

2. (Original): A charged-particle beam irradiator according to claim 1, wherein said plurality of scan electromagnets are arranged according to following equation.

*A' could*

$$a_{11}(s_1) \bullet X_1' + a_{11}(s_2) \bullet X_2' + \dots + a_{11}(s_n) \bullet X_n' = 0$$

where, n: number of the electromagnets.

$s_1 \dots s_n$ : distance from each electromagnet to beam irradiated position

$a_{11}(s)$ : coefficient of beam transport matrix

$X'$ : beam divergence at the beam irradiated position

3. (Original): A charged-particle beam irradiator according to claim 1 or 2, wherein said plurality of scan electromagnets are interposed between said final deflection electromagnet and a deflection electromagnet disposed on an entrance thereof.

4. (Original): A charged-particle beam irradiator according to claim 3, wherein said plurality of scan electromagnets are disposed upstream from said deflection electromagnet at an entrance thereof.

5. (Original): A charged-particle beam irradiator according to claim 1 or 2, wherein said plurality of scan electromagnets are disposed independent of each other in X and Y directions.

6. (Currently Amended): A therapy system, comprising:

A' *could*  
a charged-particle beam irradiator, having a plurality of scan electromagnets provided on an entrance side of a final deflection electromagnet, configured such that kicks provided by the plurality of said scan electromagnets are superimposed to form a collimated irradiation field at an exit of a final deflection electromagnet to irradiate an affected part with a charged-particle beam.

7. (New): A charged-particle beam irradiator for allowing a scan electromagnet provided on an entrance side of a final deflection electromagnet to scan a charged-particle beam to expand an irradiation field, said charged-particle beam irradiator, comprising:

a plurality of said scan electromagnets, wherein

kicks provided by the plurality of said scan electromagnets are superimposed to form a collimated irradiation field at an exit of said final deflection electromagnet,

wherein said plurality of scan electromagnets are arranged according to following equation.

$$a_{11}(s_1) \cdot X_1' + a_{11}(s_2) \cdot X_2' + \dots + a_{11}(s_n) \cdot X_n' = 0$$

where,

n: number of the electromagnets.

$s_1 \dots s_n$ : distance from each electromagnet to beam irradiated position

$a_{11}(s)$ : coefficient of beam transport matrix

$X'$ : beam divergence at the beam irradiated position

8. (New): The charged-particle beam irradiator according to claim 7, wherein said plurality of scan electromagnets are interposed between said final deflection electromagnet and a deflection electromagnet disposed on an entrance thereof.

*A1*  
*end*  
9. (New): The charged-particle beam irradiator according to claim 8, wherein said plurality of scan electromagnets are disposed upstream from said deflection electromagnet at an entrance thereof.

10. (New): The charged-particle beam irradiator according to claim 7, wherein said plurality of scan electromagnets are disposed independent of each other in X and Y directions.

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